

Final Agenda

TBPOC CONFERENCE CALL August 14, 2013, 4:00pm - 5:00pm

	Topic	Presenter	Time	Desired Outcome
1.	CHAIR'S REPORT	S. Heminger, BATA		Information
2.	SAN FRANCISCO-OAKLAND BAY BRIDGE UPDATES a. TBPOC August 15 Meeting Preparation 1) Agenda* 2) Interim Bearing Retrofit Proposal* 3) Bridge Opening Date Determination* 4) Public Access During Opening*	PMT	45 min	Approval
	b. Contractor Incentive	PMT	15 min	Information
3.	OTHER BUSINESS			

Next TBPOC Conference Call: August 22, 2013, 10:00am – 11:00am

^{*} Attachments

^{**}Attachments at front of binder

^{***}Attachments to be sent under separate cover



TOLL BRIDGE PROGRAM OVERSIGHT COMMITTEE (TBPOC) MEETING

10:00 a.m. Thursday, August 15, 2013 Joseph P. Bort MetroCenter Lawrence D. Dahms Auditorium 101 8th Street, 1st Floor Oakland, CA 94607

The Toll Bridge Program Oversight Committee, created pursuant to California State Streets and Highway Code Section 30952.1, is tasked with project oversight and control over the state toll bridge seismic retrofit program projects.

This meeting is scheduled to be audiocast live on the Metropolitan Transportation Commission's (MTC) Web site: www.mtc.ca.gov

AGENDA

ACTION RECOMMENDED**

1. Roll Call Confirm Quorum

- 2. Update on San Francisco-Oakland Bay Bridge East Span Seismic Safety Project
 - a) Interim Bearing Retrofit Proposal*

Committee Approval

The Committee will be requested to authorize the installation of bearing shims to make the new East Span of the San Francisco-Oakland Bay Bridge seismically safe for traffic while a permanent replacement of broken bolts at Pier E2 is under construction. The committee will be presented with staff's interim retrofit proposals along with independent reviews of the proposal by the Federal Highway Administration and by two engineering consultants to the Bay Area Toll Authority (BATA).

b) Bridge Opening Date Determination*

Committee Approval

The Committee will be presented with various bridge opening date scenarios, including information on construction schedules, construction risks, traffic volumes, and event schedules from around the region.

c) Public Access to Bridge During Opening*

The Committee will be presented with information on public access to the bridge during opening.

Committee Approval

- * Attachment sent to committee members, key staff and others as appropriate. Copies will be available at the meeting.
- ** All items on the agenda are subject to action and/or change by the Committee. Actions recommended by staff are subject to change by the Committee.

Public Comment: The public is encouraged to comment on agenda items by completing a request-to-speak card (available from staff) and passing it to the committee secretary. Public comment may be limited by any of the procedures set forth in Section 3.09 of MTC's Procedures Manual (Resolution No. 1058, Revised) if, in the chair's judgment, it is necessary to maintain the orderly flow of business.

Meeting Conduct: If this meeting is willfully interrupted or disrupted by one or more persons rendering orderly conduct of the meeting unfeasible, the Chair may order the removal of individuals who are willfully disrupting the meeting. Such individuals may be arrested. If order cannot be restored by such removal, the members of the committee may direct that the meeting room be cleared (except for representatives of the press or other news media not participating in the disturbance), and the session may continue.

Record of Meeting: This meeting will be recorded. Audiocasts are maintained on MTC's Web site for public review for at least one year.



Memorandum

TO: Toll Bridge Program Oversight Committee DATE: August 13, 2013

(TBPOC)

FR: Program Management Team

RE: Agenda No. - 2a

Item – Interim Bearing Retrofit Proposal

Recommendation:

The Committee is requested to authorize the installation of bearing shims to make the new East Span of the San Francisco-Oakland Bay Bridge seismically safe for traffic while a permanent replacement of broken bolts at Pier E2 is under construction.

Discussion:

On July 10, 2013 at a meeting of the Bay Area Toll Authority (BATA), members of the Toll Bridge Program Oversight Committee (TBPOC) briefed BATA commissioners on findings contained in the recently released report on the high-strength steel bolts used on the new Bay Bridge East Span. A key focus was the ongoing effort to retrofit Pier E2 where the bolt failure occurred. The fabrication and installation of a reinforcing steel saddle retrofit is forecast for completion by December of this year.

The Toll Bridge Seismic Safety Peer Review Panel (TBSSPRP) provided a graphic showing the superior strength of the new East Span design compared to the old East Span, and supported a proposal for an interim fix at Pier E2. The TBPOC asked the Federal Highway Administration (FHWA) and two preeminent bridge engineers from the firms of Buckland & Taylor, Ltd., and Modjeski and Masters to review this recommendation.

All reviews have reached the same and unequivocal conclusion that the interim retrofit will adequately protect and allow for the opening of the new East Span while the permanent retrofit is under construction.

These reports can be found at http://www.mtc.ca.gov/news/press releases/rel617.htm

Item 2a – Interim Bearing Retrofit Proposal

Caltrans Presentation on Shims

Pending

FHWA Comment

No presentation anticipated

Buckland Taylor Presentation

Buckland & Taylor

Independent Review Summary

Peter Taylor, P.E. Brian Morgenstern, P.E.



ISSUE

Capacity (strength) of horizontal connection of superstructure to top of Pier E2

Horizontal – Longitudinal, Transverse



Stages

- 1. As designed
- 2. Present
- 3. Temporary (shimmed bearings)
- 4. Final

	Participating Components			
Stage	Shear Keys	Bearings		
	S1, S2	S3, S4	B1, B2, B3, B4	
1				
2				
3				
4				

	Participating Components			
Stage	Shear Keys	Bearings		
	S1, S2	S3, S4	B1, B2, B3, B4	
1	✓	Gap	Gap	
2				
3				
4				

	Participating Components			
Stage	Shear Keys	Bearings		
	S1, S2	S3, S4	B1, B2, B3, B4	
1	\checkmark	Gap	Gap	
2	Minor	Gap	Gap	
3				
4				

	Participating Components			
Stage	Shear Keys	Bearings		
	S1, S2	S3, S4	B1, B2, B3, B4	
1	\checkmark	Gap	Gap	
2	Minor	Gap	Gap	
3	Minor	Gap	\checkmark	
4				

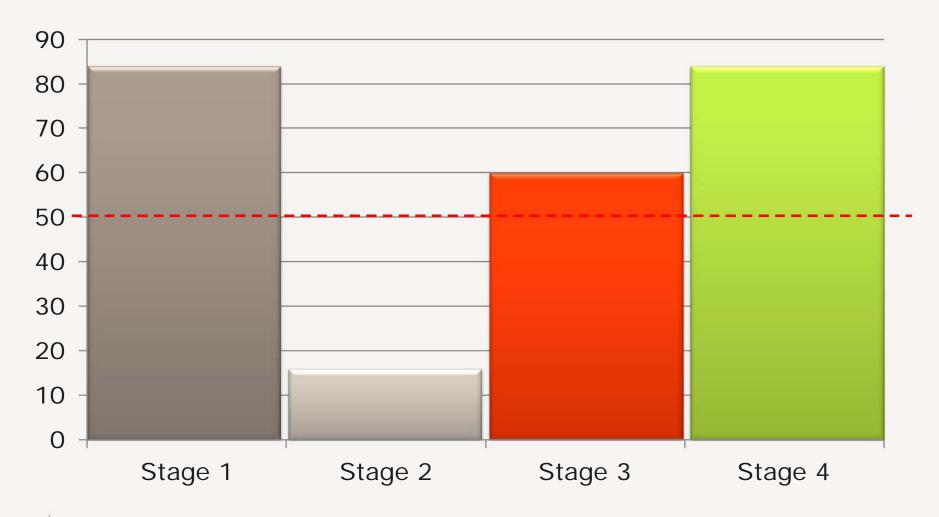
	Participating Components			
Stage	Shear Keys	Bearings		
	S1, S2	S3, S4	B1, B2, B3, B4	
1	√	Gap	Gap	
2	Minor	Gap	Gap	
3	Minor	Gap	\checkmark	
4	\checkmark	Gap	Gap	

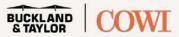
> Transverse Connection

	Participating Components			
Stage	Shear Keys	Bearings		
	S1, S2	S3, S4	B1, B2, B3, B4	
1	√	✓	Gap	
2	Minor	\checkmark	Gap	
3	Minor	✓	\checkmark	
4	\checkmark	\checkmark	Gap	

Mobilized Capacity

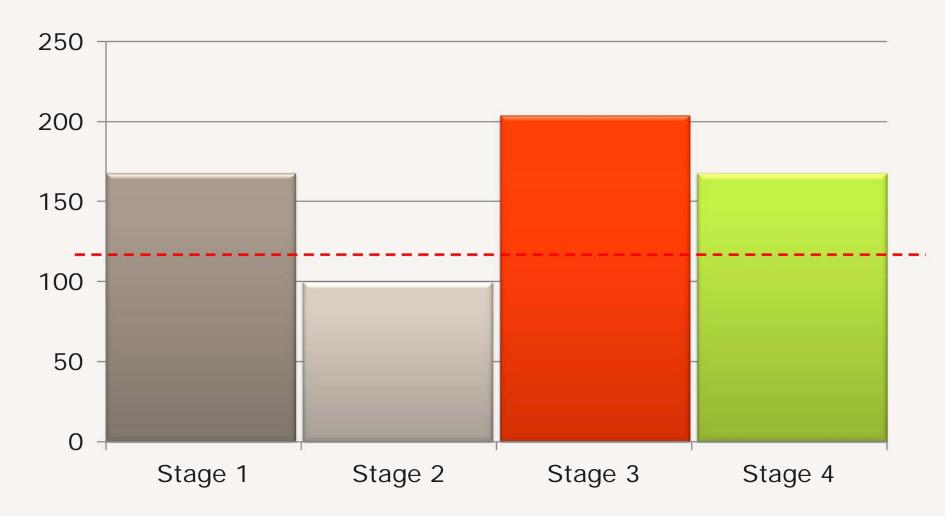
Longitudinal





Mobilized Capacity

Transverse



Conclusion

> The proposal to temporarily shim the bearings is sound.



Modjeski and Masters Review

- Independently verified capacities of shear keys and bearings
- Reviewed all portions of the structure affected by the change in load path
- Evaluated design of shims and behavior of shimmed bearings
- In-depth, thorough review of both the concept and the execution



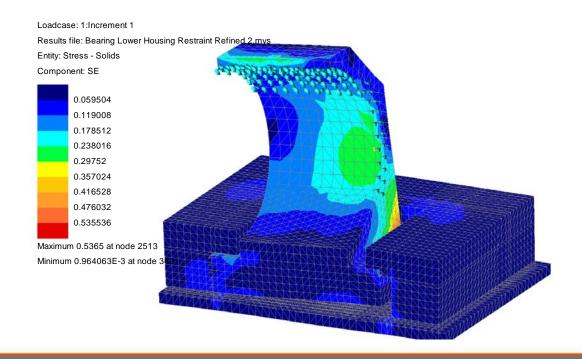
Modjeski and Masters Review

- Independently verified capacities of shear keys and bearings
- Reviewed all portions of the structure affected by the change in load path
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Bearing Capacities

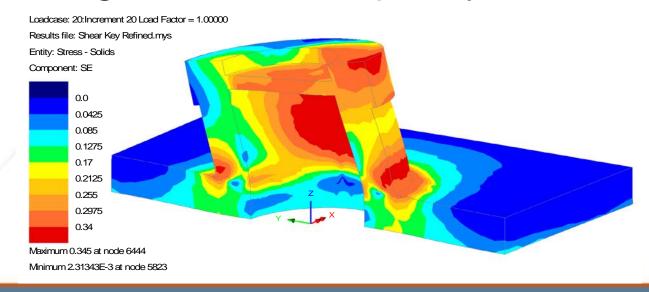
- Basic and refined analyses of the bearings and interfaces
- Independently arrived at similar capacities





Shear Key Capacities

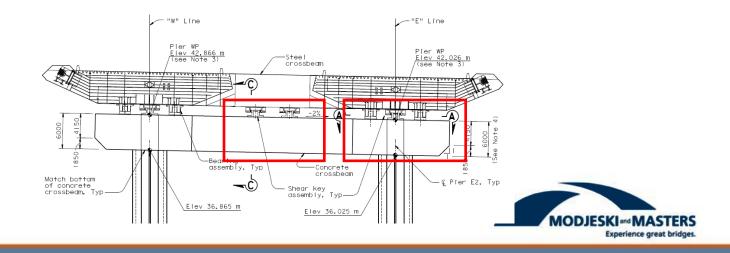
- New load path places different demands on remaining shear keys (S3 & S4)
- Basic and refined analyses performed
- Large reserved capacity available





OBG and Pier Strut Capacities

- Evaluate steel box girder and concrete pier strut for changes in load path
- In all cases capacities available far greater than demands



Conclusions

- The concept is simple, but very effective
- Provides the required strength, plus a significant reserve
- Results in a redundant load path which further enhances safety
- Poses no risk to the bridge in the short or long term



Recommendation

Staff recommends the installation of bearing shims to make the new East Span of the San Francisco-Oakland Bay Bridge seismically safe for traffic while a permanent replacement of broken bolts at Pier E2 is under construction.



Memorandum

TO: Toll Bridge Program Oversight Committee DATE: August 13, 2013

(TBPOC)

FR: Program Management Team

RE: Agenda No. - 2b

Item – Bridge Opening Date Determination

Recommendation:

The Committee is requested to approve a a 5-day closure of the bridge to complete construction from the evening of Wednesday, August 28 to the morning of Tuesday, September 3.

Discussion:

In light of the positive conclusions of the reviews of the interim bearing retrofit proposal, there is a possibility of opening the new bridge safely prior to completion of the permanent Pier E2 bolt repairs.

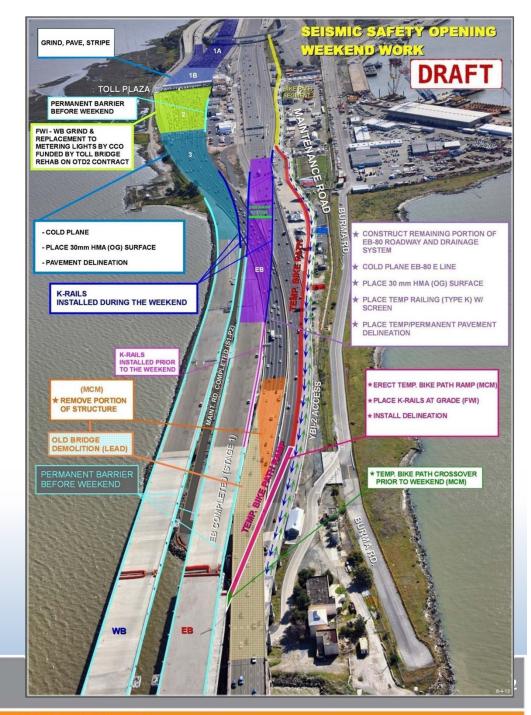
Staff will present information regarding construction activities and schedule necessary to open the new bridge to traffic, historic traffic volumes, and a schedule of events around the region to help determine an appropriate weekend to open the new East Span to traffic.

Item 2b – Bridge Opening Date Determination



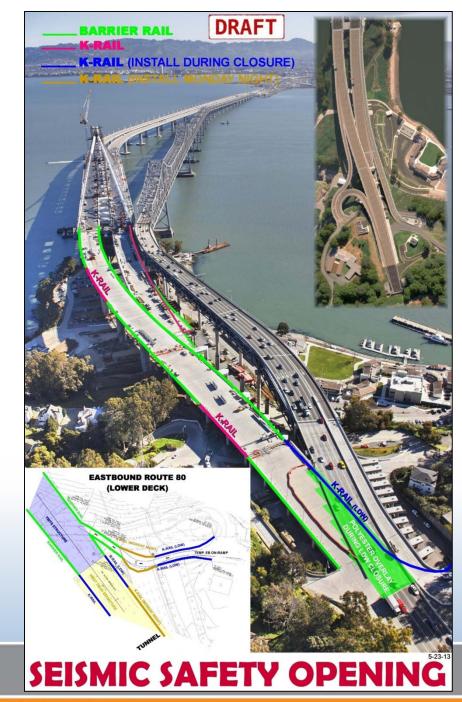
Opening Construction Activities - Oakland

- Roadway Realignment
 - Paving
 - Striping
 - Drainage
 - Barriers
- Bridge Demolition
- Bike Path Construction



Opening Construction Activities - YBI

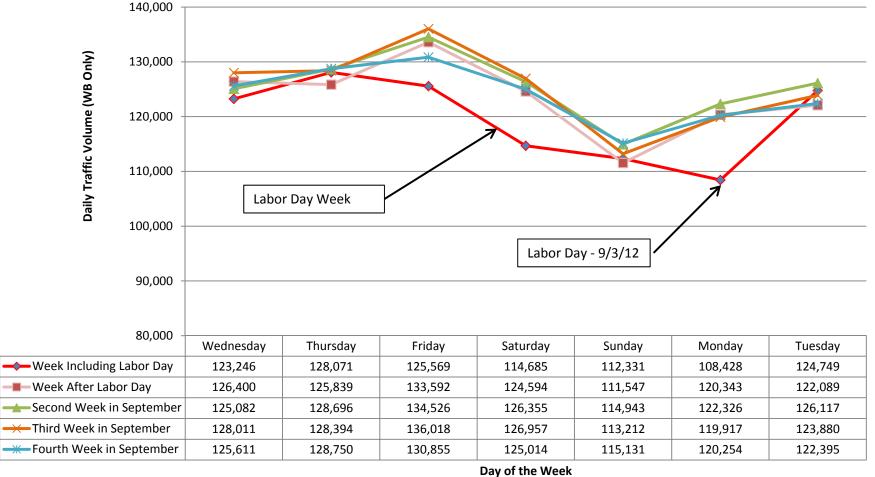
- Roadway Realignment
 - Paving
 - Striping
 - Barriers





Traffic Volumes

SFOBB Westbound Daily Volume for September 2012





Bridge Closure Options/Events Calendar

Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday
28 Aug	29	30			Labor Day	3
4	5 SIANTS	6 GANTS	7	8	9 GIANTS	10 Lines
11 🐠	12	13	14 Cal	15 Exercises	16	17 (**)
18	19 (A)	20	21 Sep to AM Mon 23 Se	22 (2) (3)	23	24 GLAVE
25 SIANTS	26 SIANTS	27 GANTS	28	29 🐠	30	1 Oct
	Bridge Closure Opt	ion #1 – PM Tue 24 S	Sep to AM Mon 30 Se	ер		

Coordination

- Cities Oakland and San Francisco
- BART
- CHP
- Treasure Island
- Others

Recommendation

- Staff recommends a 5-day closure of the bridge to complete construction.
- Staff recommends Labor Day Weekend to open the bridge from the evening of Wednesday, August 28 to the morning of Tuesday, September 3.



Memorandum

TO: Toll Bridge Program Oversight Committee DATE: August 13, 2013

(TBPOC)

FR: Program Management Team

RE: Agenda No. - 2c

Item – Public Access to Bridge during Opening

Recommendation:

The Committee is requested to open the bridge with a minimal chain-cutting event.

Discussion:

The Toll Bridge Program Oversight Committee has been working with the Bay Area Alliance to coordinate public access to the bridge during bridge opening. Unfortunately, , prior discuss plans for public access to the bridge cannot be adequately coordinated in a safe manner given the shortened notice provided for bridge opening.



PROJECT UPDATE

August 14th, 2013





POTENTIAL OPENING EVENT OPTIONS

- Gold Level Chain Cutting @ Toll Plaza for 8,000 ppl
- Silver Level Dedication Ceremony @ SAS for 1,200 ppl
- Bronze Level Sawtooth Reception Only for 650 ppl
- Media Event Simple Chain Cutting w/ Press Riser for 200 ppl



PROGRAM OF EVENTS - GOLD LEVEL

- Chain Cutting Ceremony @ Toll Plaza
- 8,000 People
- Invitation Only Electronic or Will Call
- VIP Reception 650 @ Sawtooth Building





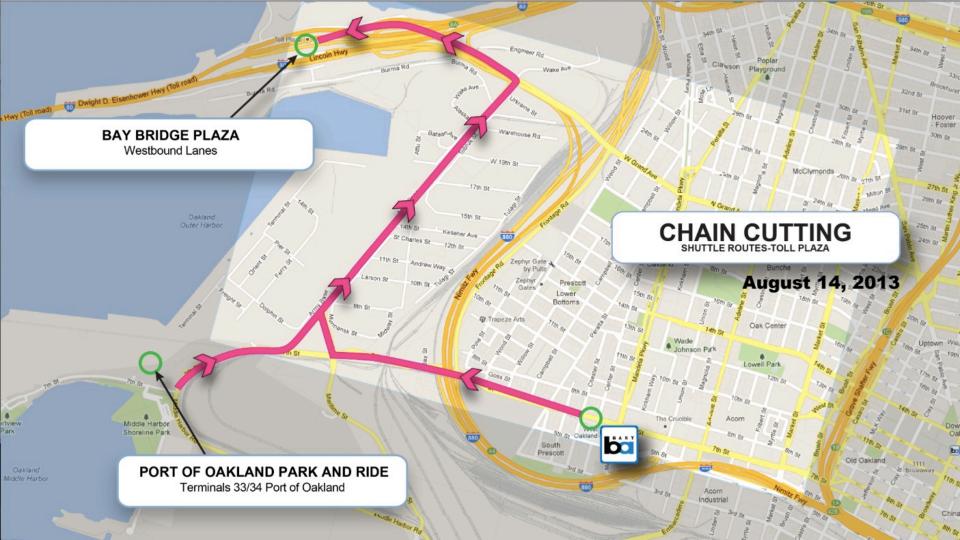


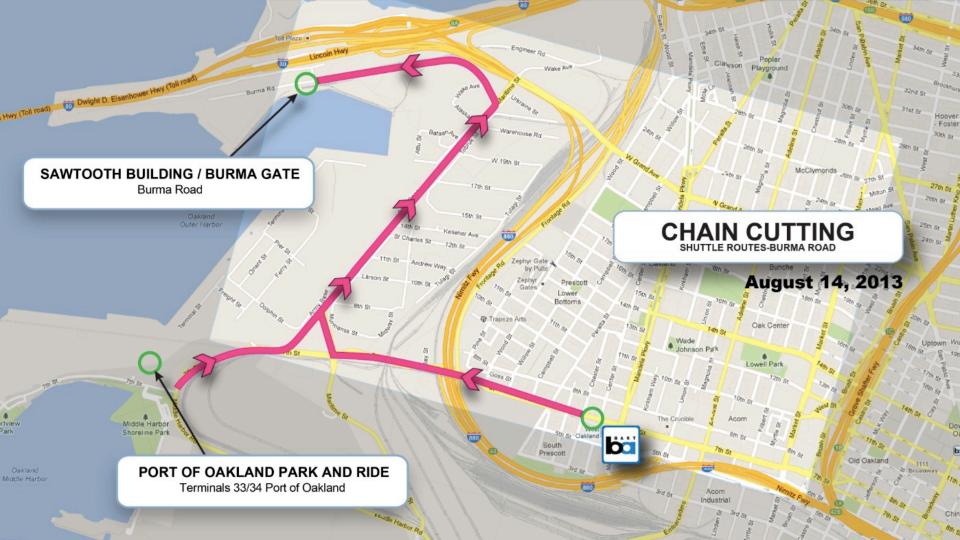


PROGRAM OF EVENTS - GOLD LEVEL

TRANSPORTATION & ACCESS

- Shuttles From:
 - Downtown San Francisco
 - Oakland BART
 - Port of Oakland Park & Ride
- VVIP Valet on Burma Rd.









PROGRAM OF EVENTS - GOLD LEVEL

REGISTRATION & CREDENTIALING

- 2 Options:
 - Online Website Registration Scannable Ticket
 - Onsite Will Call Wristband/Credential Provided
- All Attendees Checked-In Prior to Boarding Buses



PROGRAM OF EVENTS – SILVER LEVEL

- Dedication Ceremony
- 1200 People @ SAS Tower
- Invitation Only Electronic or Will Call



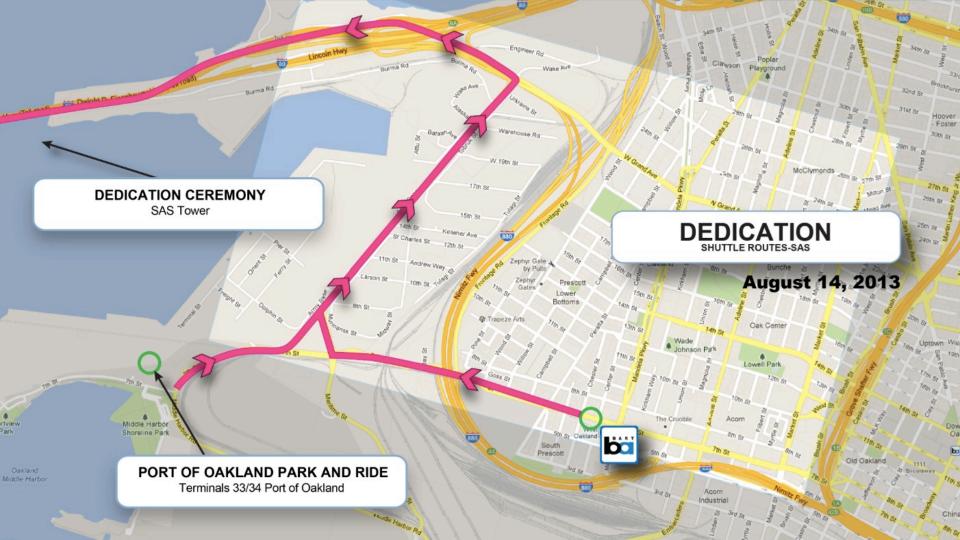




PROGRAM OF EVENTS - SILVER LEVEL

TRANSPORTATION & ACCESS

- Shuttles From:
 - Downtown San Francisco
 - Oakland BART
 - Port of Oakland Park & Ride
- VVIP Valet on Burma Rd.





PROGRAM OF EVENTS - SILVER LEVEL

REGISTRATION & CREDENTIALING

- 2 Options:
 - Online Website Registration Scannable Ticket
 - Onsite Will Call Wristband/Credential Provided
- All Attendees Checked-In Prior to Boarding Buses



PROGRAM OF EVENTS - BRONZE LEVEL

- Dedication Ceremony
- 650 People @ Sawtooth building
- Invitation Only Electronic or Will Call
- No Chain Cutting or Bridge Access
- Shuttles From Wake Rd. Parking Lot, Oakland BART & SF
- VVIP Valet @ Burma Rd.







PROGRAM OF EVENTS – BRONZE LEVEL

TRANSPORTATION & ACCESS

- Shuttles From:
 - Downtown San Francisco
 - Oakland BART
 - Wake Rd. Lot Park & Ride
- VVIP Valet on Burma Rd.



PROGRAM OF EVENTS - BRONZE LEVEL

REGISTRATION & CREDENTIALING

- 2 Options:
 - Online Website Registration Scannable Ticket
 - Onsite Will Call Wristband/Credential Provided
- All Attendees Checked-In Prior to Boarding Buses



PROGRAM OF EVENTS – MEDIA EVENT

- Chain Cutting
- 200 People @ Toll Plaza
- Invitation Only Register at PIO
- Press Riser
- No Transportation Provided Valet on Burma Rd.



Event Cost Breakdown

	Gold	Silver	Bronze	Media Event
Chain Cutting w/ 8,000 Person Audience & Sawtooth Reception	\$ 1.38 M	-	-	-
Dedication Ceremony @ SAS Tower	-	\$ 670 K	-	-
Dedication Ceremony @ Sawtooth Building	-	-	\$ 360 K	-
Chain Cutting - Media Event	-	-	-	\$ 75 K
Total	\$ 1.38 M	\$ 670 K	\$ 360 K	\$ 75 K



Budget Breakdown

GOLD EVENT - CHAIN CUTTING @ TOLL PLAZA

- Stage Production \$669 K
- Transportation \$176 K
- Event Infrastructure \$125 K
- Sawtooth Reception \$365 K



Budget Breakdown

SILVER EVENT - DEDICATION CEREMONY @ SAS

- Stage Production \$478 K
- Transportation \$65 K
- Event Infrastructure \$83 K



Budget Breakdown

BRONZE EVENT – SAWTOOTH RECEPTION

- Transportation \$140 K
- Infrastructure \$35 K
- Catering \$63 K